

FIG.1 Circuits of HRPD Config. 1

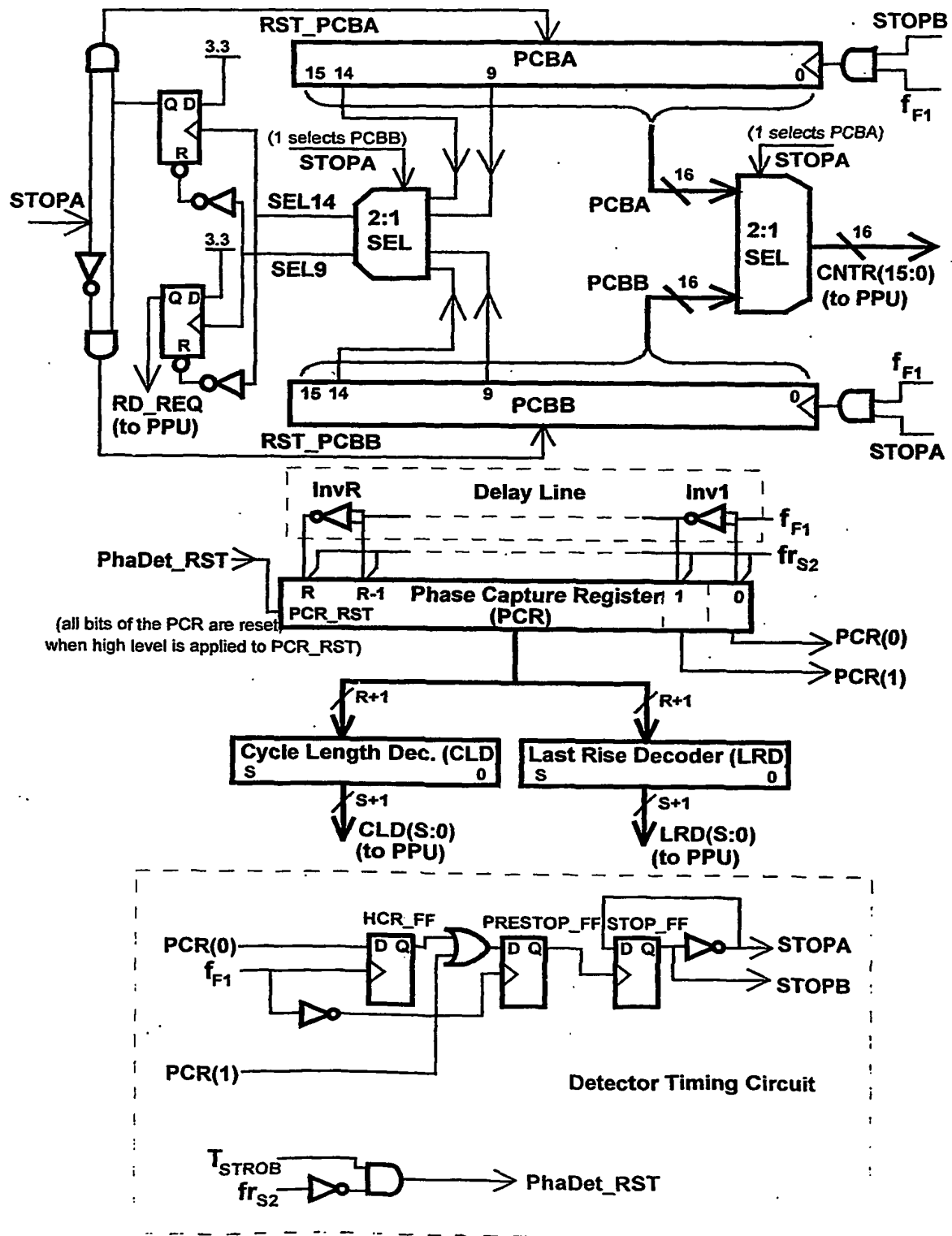
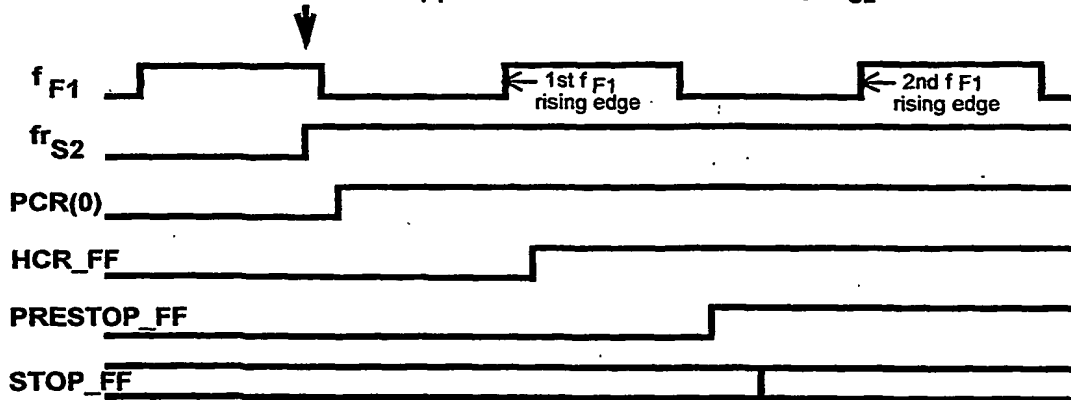


FIG.2 Timing Analysis of HRPD Config.1

For PCR(0)=1:

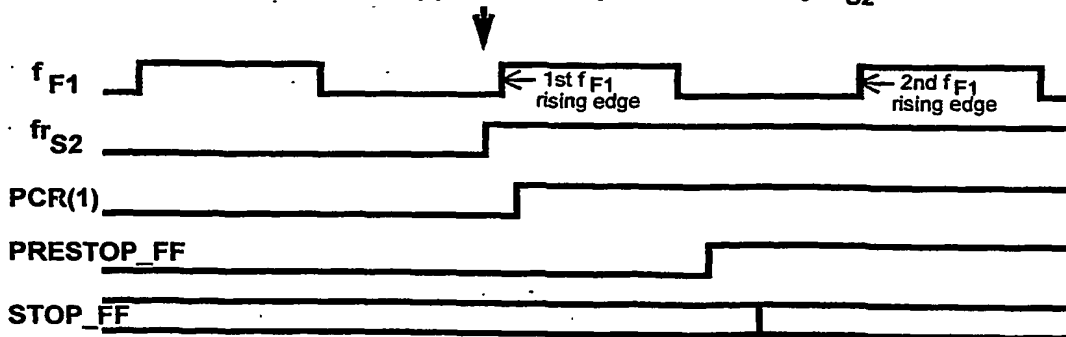
This arrow indicates  $fr_{S2}$  appearance versus  $f_{F1}$  wave.  
The left side of the  $f_{F1}$  wave is captured in PCR by  $fr_{S2}$ .



This arrow indicates  $STOP\_FF$  switching,  
before a second appearance of  $f_{F1}$  rising edge.

For PCR(1)=1:

This arrow indicates  $fr_{S2}$  appearance versus  $f_{F1}$  wave.  
The left side of the  $f_{F1}$  wave is captured in PCR by  $fr_{S2}$ .



This arrow indicates  $STOP\_FF$  switching,  
before a second appearance of  $f_{F1}$  rising edge.

**Fig.3 High Resolution Extension of the HRPD Config.2**

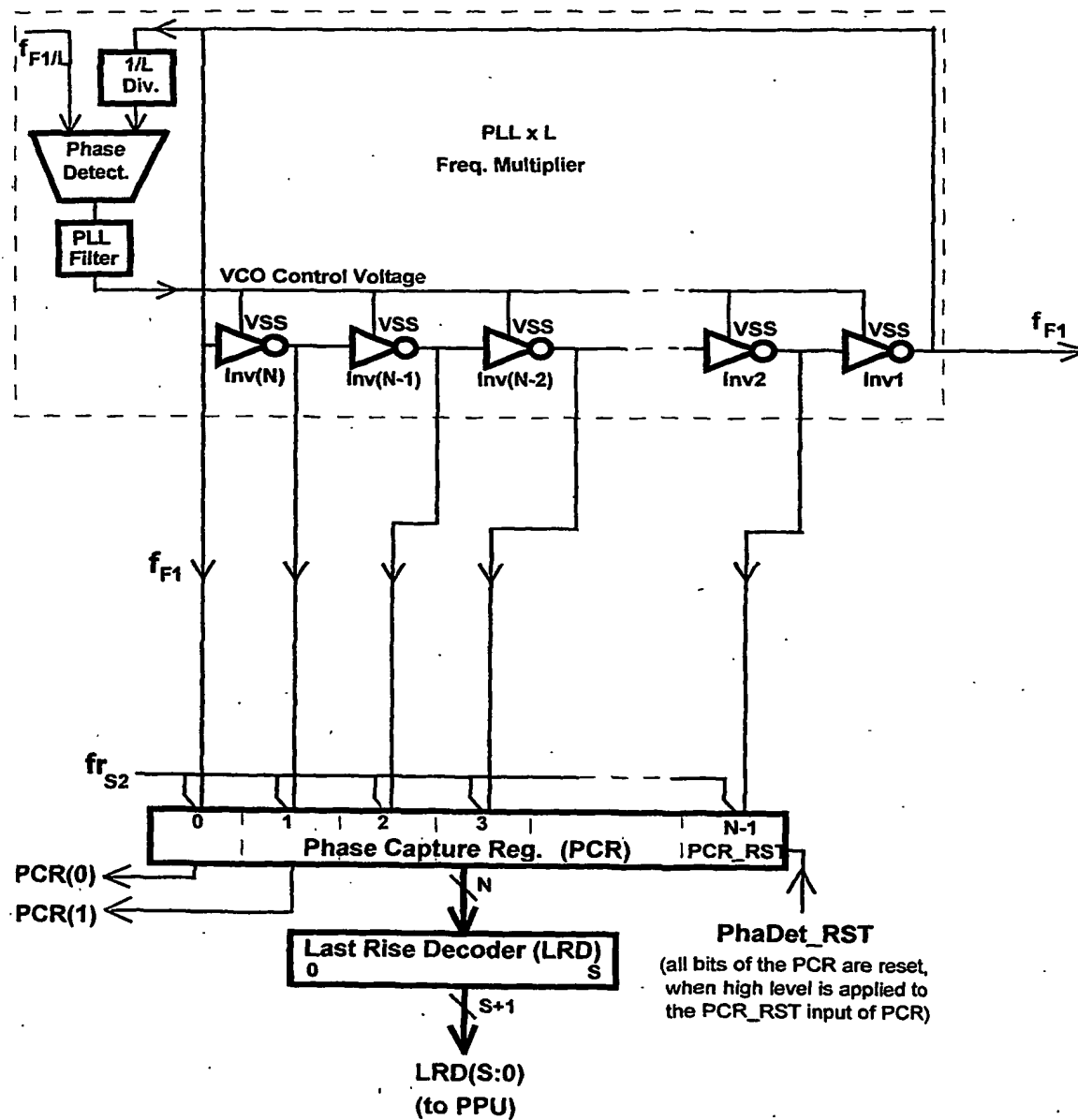


Fig.4 High Resolution Extension of the HRPD Config.3

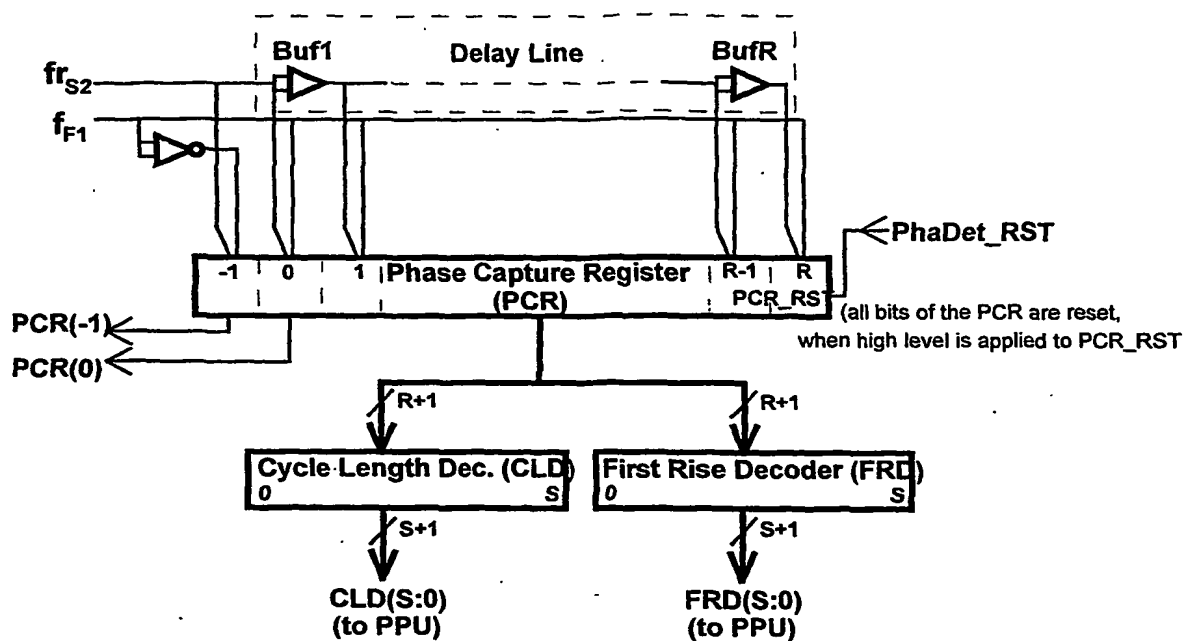


Fig.5 Detector Timing Circuit of the HRPD Config.3

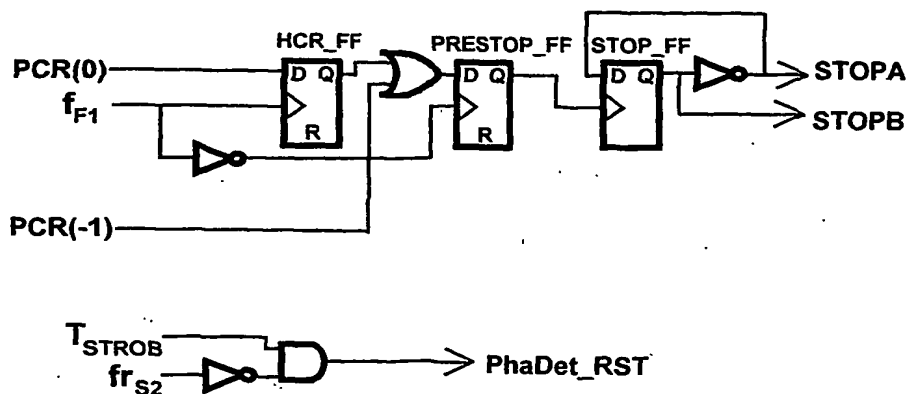
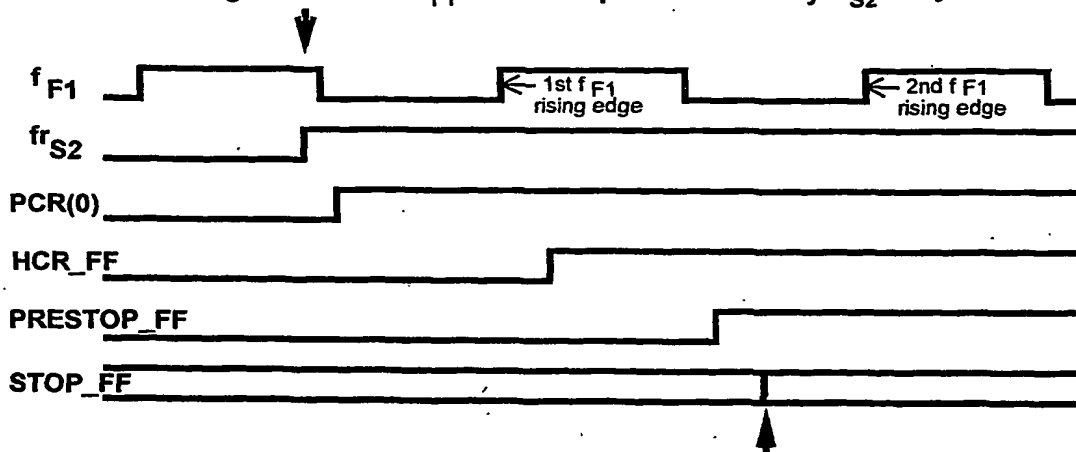


FIG.6 Timing Analysis of the HRPD Config.3

For PCR(0)=1:

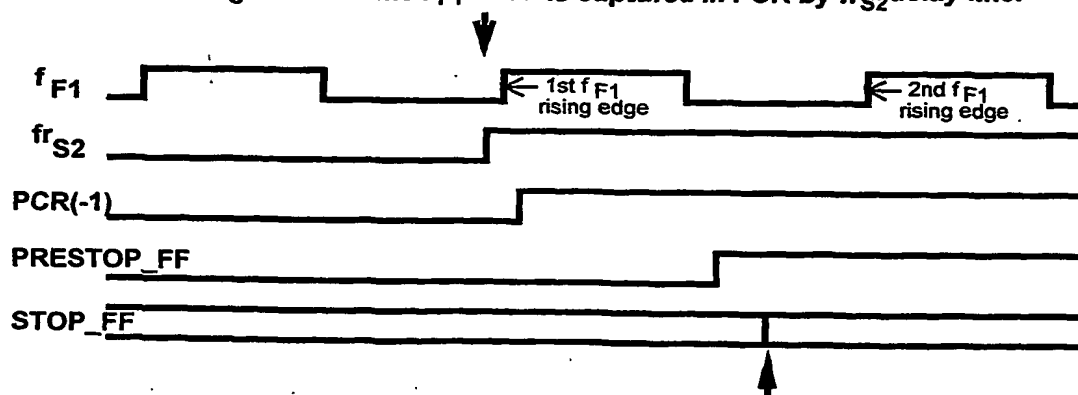
This arrow indicates  $fr_{S2}$  appearance versus  $f_{F1}$  wave.  
 The right side of the  $f_{F1}$  wave is captured in PCR by  $fr_{S2}$  delay line.



This arrow indicates  $STOP\_FF$  switching,  
 before a second appearance of  $f_{F1}$  rising edge.

For PCR(-1)=1:

This arrow indicates  $fr_{S2}$  appearance versus  $f_{F1}$  wave.  
 The right side of the  $f_{F1}$  wave is captured in PCR by  $fr_{S2}$  delay line.



This arrow indicates  $STOP\_FF$  switching,  
 before a second appearance of  $f_{F1}$  rising edge.

**Fig.7 High Resolution Extension of the HRPD Config.4**

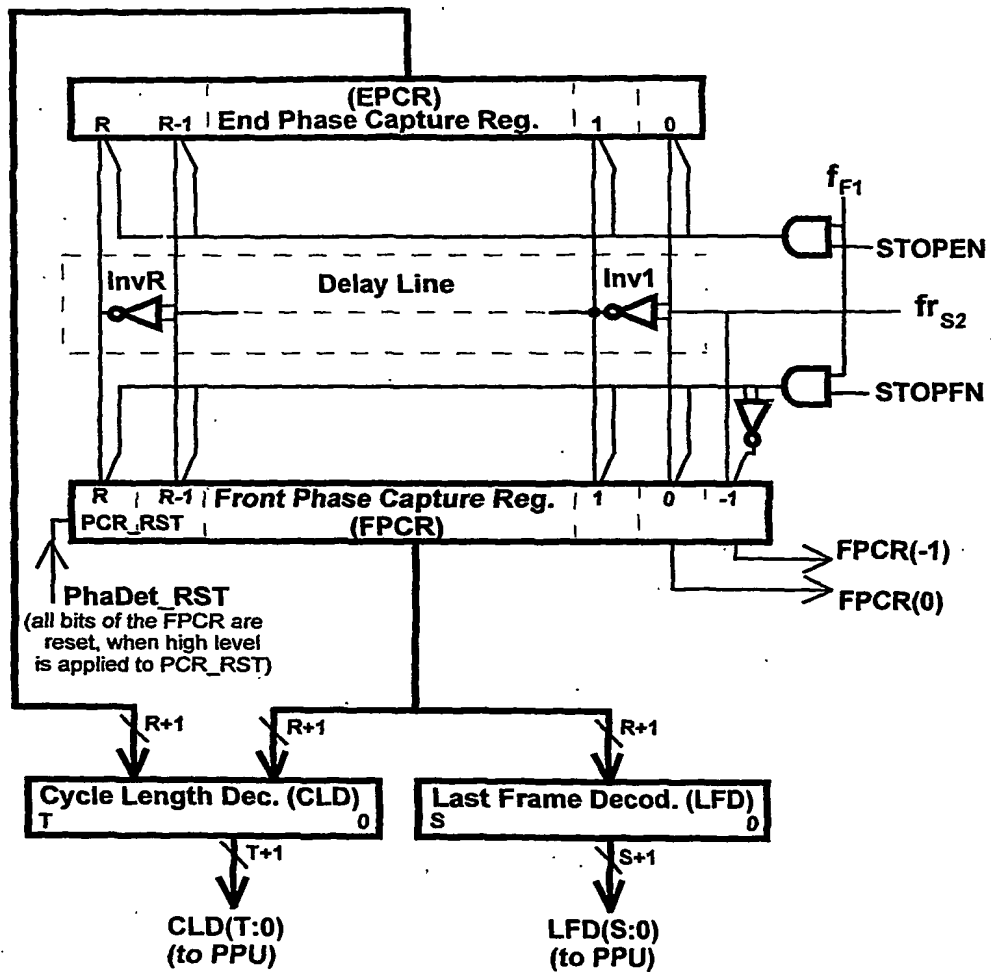


Fig.8 Detector Timing Circuit of the HRPD Config.4

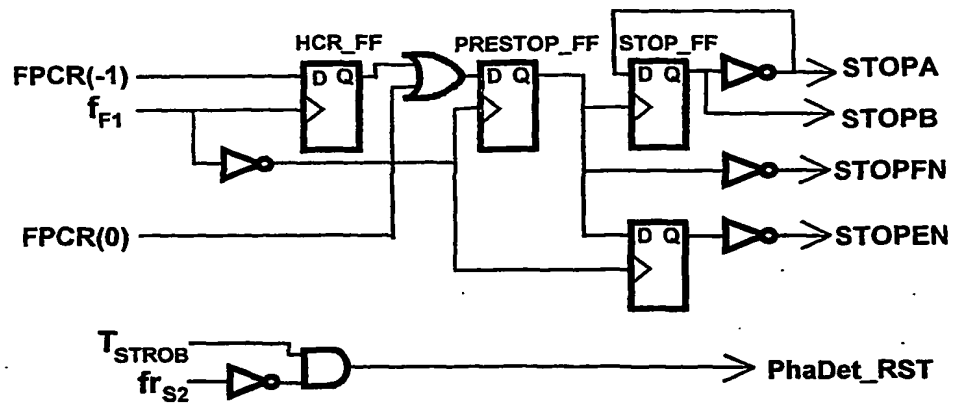
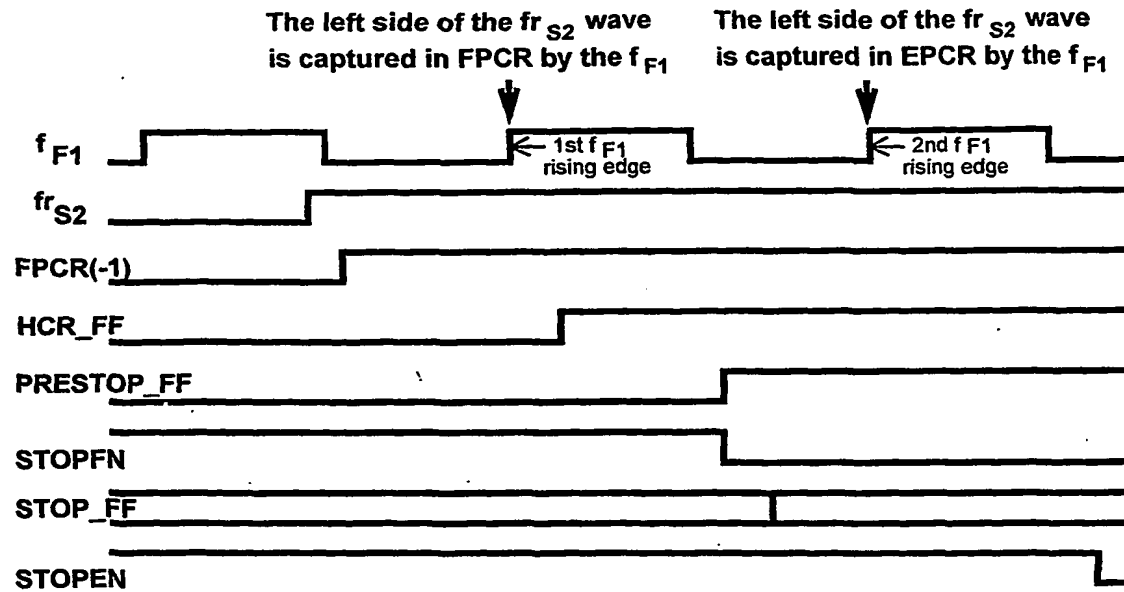


FIG.9 Timing Analysis of the HRPD Config.4

For FPCR(-1)=1:



For FPCR(0)=1:

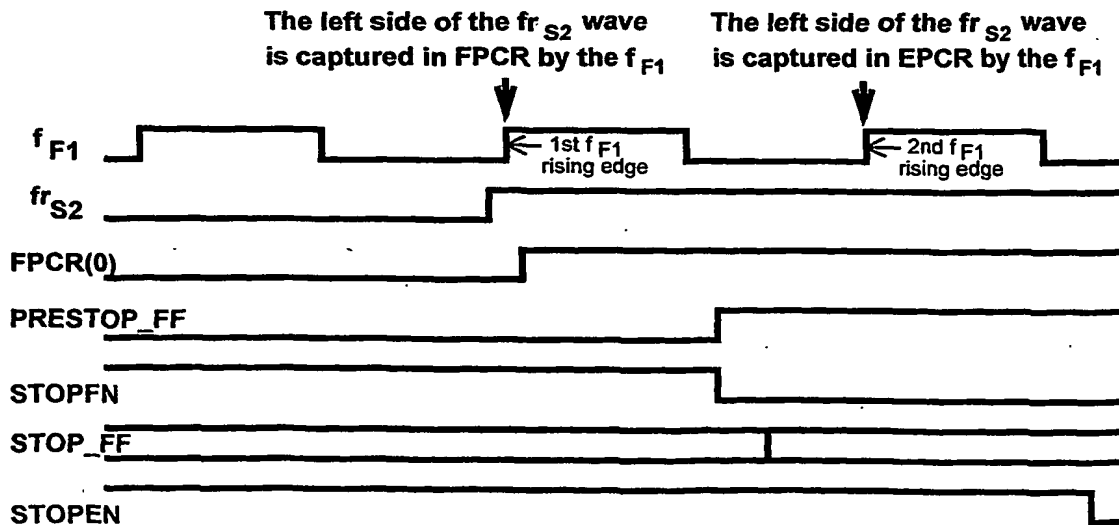




Fig.10 High Resolution Extension of the HRPD Config.5

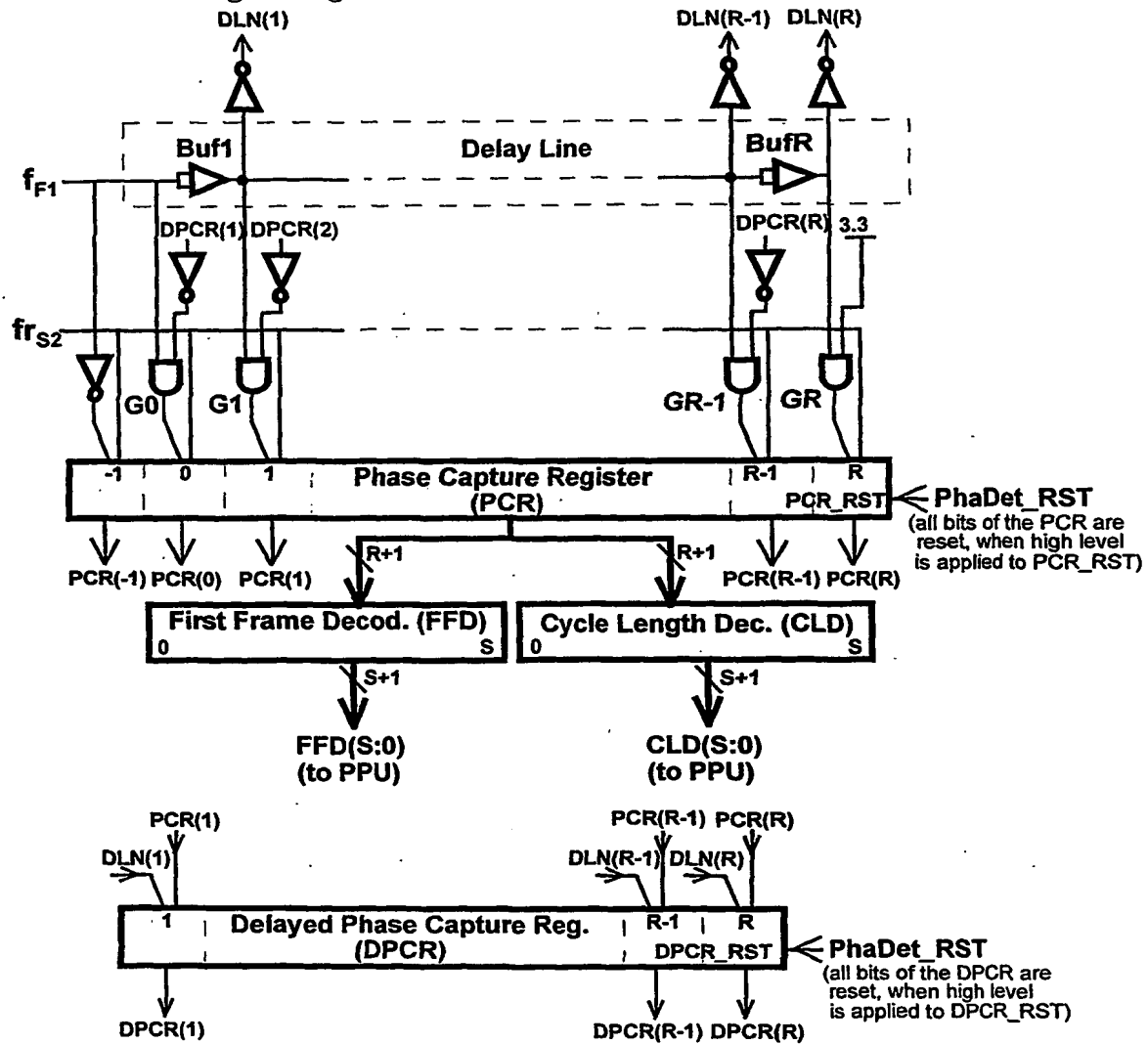


Fig.11 Detector Timing Circuit of the HRPD Config.5

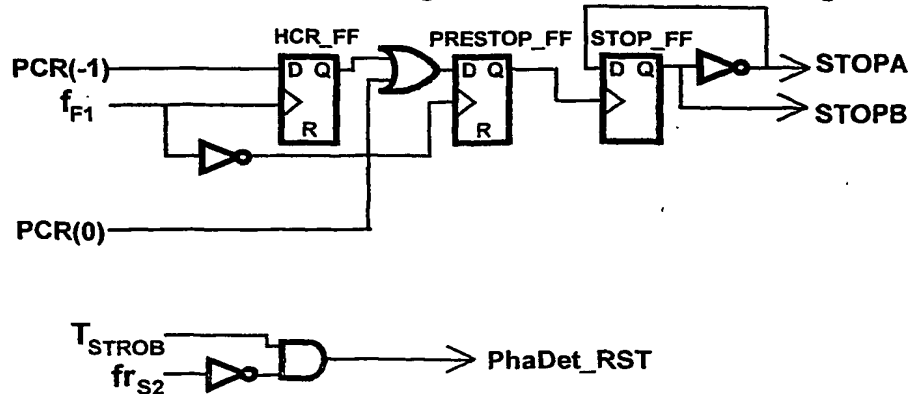
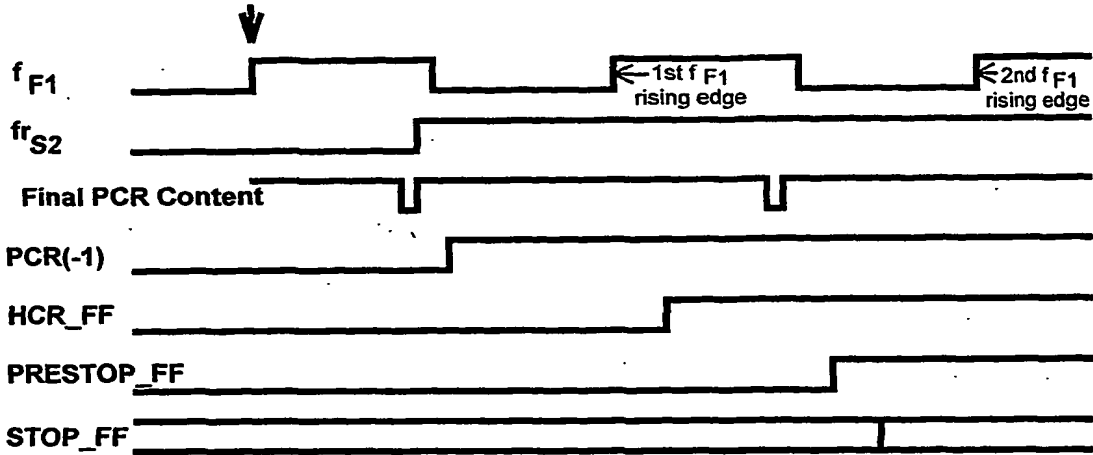


FIG.12 Timing Analysis of the HRPD Config.5

For PCR(-1)=1:

The right side of the  $fr_{S2}$   
is captured in the PCR.



For PCR(0)=1:

The right side of the  $fr_{S2}$   
is captured in the PCR.

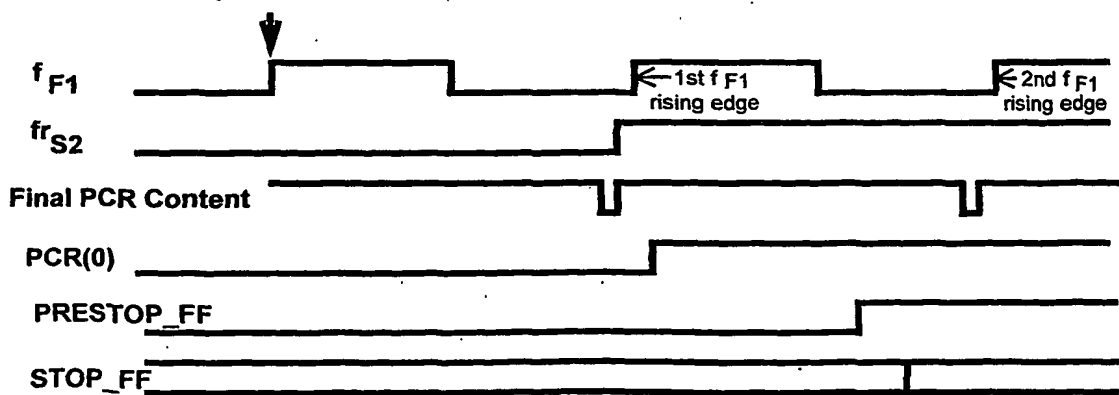


Fig.13 High Resolution Extension of the HRPD Config.6

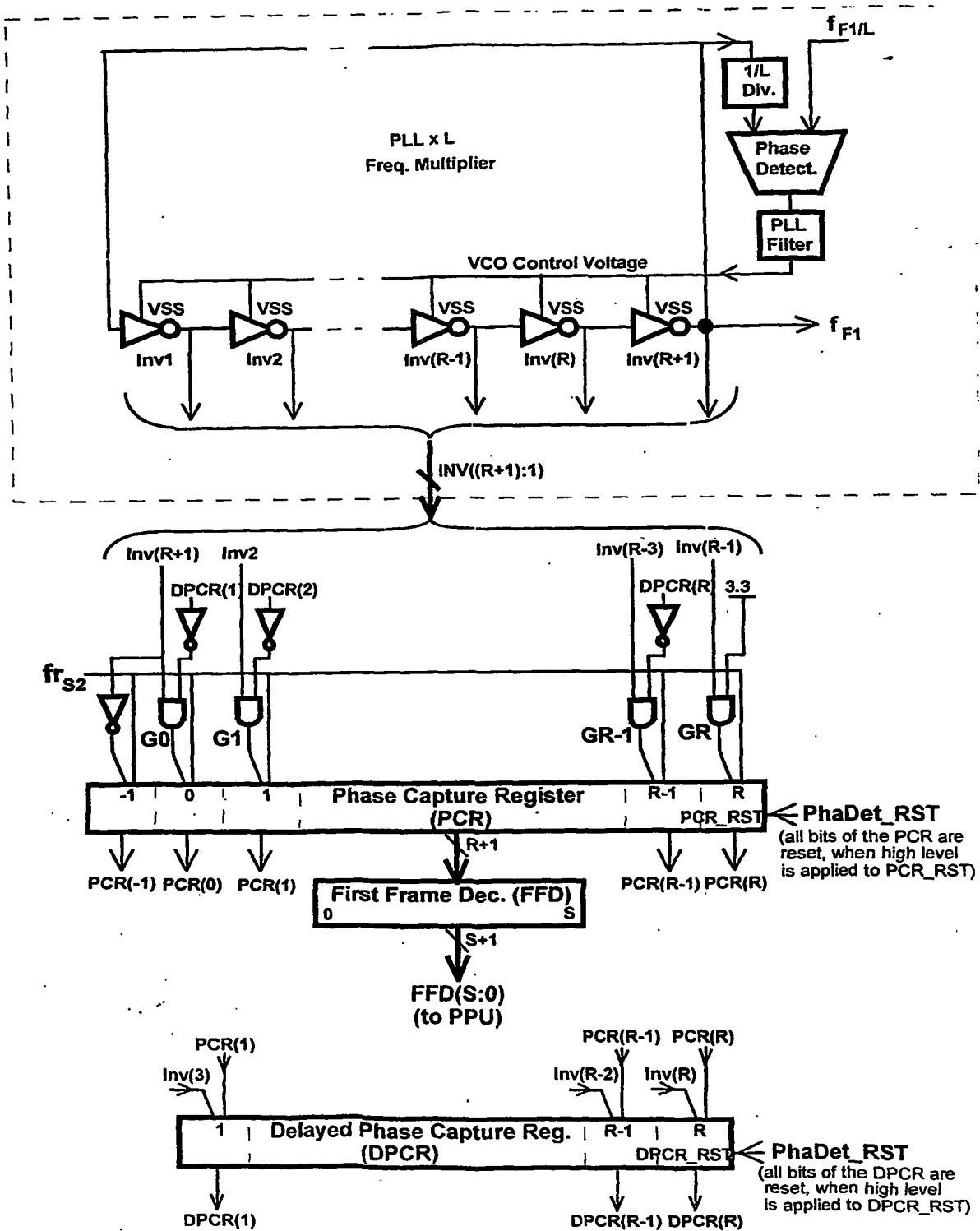
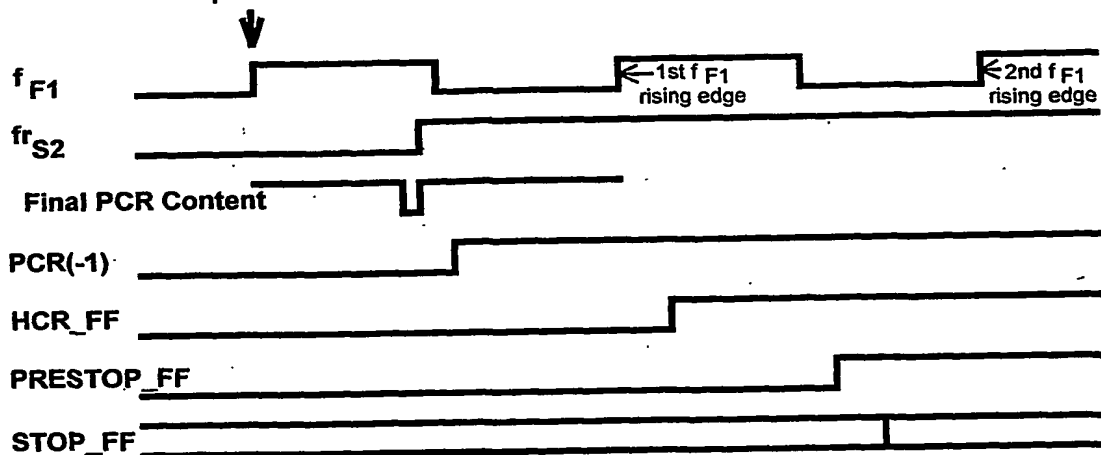


FIG.14 Timing Analysis of the HRPD Config.6

For PCR(-1)=1:

The right side of the fr<sub>S2</sub>  
is captured in the PCR.



For PCR(0)=1:

The right side of the fr<sub>S2</sub>  
is captured in the PCR.

